

#6

OIPE

RAW SEQUENCE LISTING

DATE: 09/19/2001

PATENT APPLICATION: US/09/854,847

TIME: 13:43:42

Input Set : A:\LEX-0173-USA SEQLIST.txt

Output Set: N:\CRF3\09192001\I854847.raw

4 <110> APPLICANT: Mathur, Brian
 5 Turner, C. Alexander Jr.
 7 <120> TITLE OF INVENTION: Novel Human Lipocalin Homologs and Polynucleotides Encoding
 the Same

10 <130> FILE REFERENCE: LEX-0173-USA

C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/854,847

C--> 12 <141> CURRENT FILING DATE: 2001-09-10

12 <150> PRIOR APPLICATION NUMBER: US 60/203,874

13 <151> PRIOR FILING DATE: 2000-05-12

15 <160> NUMBER OF SEQ ID NOS: 28

17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 555

21 <212> TYPE: DNA

22 <213> ORGANISM: homo sapiens

24 <400> SEQUENCE: 1

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26	gaggttctgc	tgcagcctga	cttcaatgct	gaaaagtctc	caggcctctg	gtacgtggtc	120
27	tccatggcat	ctgactgcag	ggtcttcctg	ggcaagaagg	accacctgtc	catgtccacc	180
28	agggccatca	ggcccacaga	ggagggcggc	ctccacgtcc	acatggagtt	cccgggggcg	240
29	gacggctgta	accaggtgga	tgccgagtac	ctgaagggtg	gctccgaggg	acacttcaga	300
30	gtcccggcct	tgggtacct	ggacgtgcgc	atcgtggaca	cagactacag	ctccttcgcc	360
31	gtcctttaca	tctacaagga	gctggagggg	gcgctcagca	ccatgggtgca	gctctacagc	420
32	cggacccagg	atgtgagtcc	ccaggctctg	aaggccttcc	aggacttcta	cccgacctg	480
33	gggctccccg	aggacatgat	ggtcatgctg	ccccagtcag	atgcatgcaa	ccctgagagc	540
34	aaggaggcgc	cctga					555

36 <210> SEQ ID NO: 2

37 <211> LENGTH: 184

38 <212> TYPE: PRT

39 <213> ORGANISM: homo sapiens

41 <400> SEQUENCE: 2

42	Met	Met	Ser	Phe	Leu	Leu	Gly	Ala	Ile	Leu	Thr	Leu	Leu	Trp	Ala	Pro
43	1				5					10					15	
44	Thr	Ala	Gln	Ala	Glu	Val	Leu	Leu	Gln	Pro	Asp	Phe	Asn	Ala	Glu	Lys
45			20						25					30		
46	Phe	Ser	Gly	Leu	Trp	Tyr	Val	Val	Ser	Met	Ala	Ser	Asp	Cys	Arg	Val
47			35				40						45			
48	Phe	Leu	Gly	Lys	Lys	Asp	His	Leu	Ser	Met	Ser	Thr	Arg	Ala	Ile	Arg
49		50				55						60				
50	Pro	Thr	Glu	Glu	Gly	Gly	Leu	His	Val	His	Met	Glu	Phe	Pro	Gly	Ala
51	65				70					75					80	
52	Asp	Gly	Cys	Asn	Gln	Val	Asp	Ala	Glu	Tyr	Leu	Lys	Val	Gly	Ser	Glu
53				85					90					95		
54	Gly	His	Phe	Arg	Val	Pro	Ala	Leu	Gly	Tyr	Leu	Asp	Val	Arg	Ile	Val
55			100					105						110		
56	Asp	Thr	Asp	Tyr	Ser	Ser	Phe	Ala	Val	Leu	Tyr	Ile	Tyr	Lys	Glu	Leu
57			115				120							125		
58	Glu	Gly	Ala	Leu	Ser	Thr	Met	Val	Gln	Leu	Tyr	Ser	Arg	Thr	Gln	Asp

ENTERED

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59      130      135      140
60 Val Ser Pro Gln Ala Leu Lys Ala Phe Gln Asp Phe Tyr Pro Thr Leu
61 145      150      155      160
62 Gly Leu Pro Glu Asp Met Met Val Met Leu Pro Gln Ser Asp Ala Cys
63      165      170      175
64 Asn Pro Glu Ser Lys Glu Ala Pro
65      180
67 <210> SEQ ID NO: 3
68 <211> LENGTH: 207
69 <212> TYPE: DNA
70 <213> ORGANISM: homo sapiens
72 <400> SEQUENCE: 3
73 atgatgtcat tcctgctcgg cgcaatcctg accctgctct gggcgccac ggctcaggct      60
74 gaggttctgc tgcagcctga cttcaatgct gaaaagggtc ttctgggca agaaggacca      120
75 cctgtccatg tccaccaggg ccacagggcc cacagaggag ggcggcctcc acgtccacat      180
76 ggagttcccc gggcgggacg gctgtaa      207
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 68
80 <212> TYPE: PRT
81 <213> ORGANISM: homo sapiens
83 <400> SEQUENCE: 4
84 Met Met Ser Phe Leu Leu Gly Ala Ile Leu Thr Leu Leu Trp Ala Pro
85 1      5      10      15
86 Thr Ala Gln Ala Glu Val Leu Leu Gln Pro Asp Phe Asn Ala Glu Lys
87      20      25      30
88 Gly Leu Pro Gly Gln Glu Gly Pro Pro Val His Val His Gln Gly His
89      35      40      45
90 Gln Ala His Arg Gly Gly Arg Pro Pro Arg Pro His Gly Val Pro Gly
91      50      55      60
92 Gly Gly Arg Leu
93 65
95 <210> SEQ ID NO: 5
96 <211> LENGTH: 339
97 <212> TYPE: DNA
98 <213> ORGANISM: homo sapiens
100 <400> SEQUENCE: 5
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102 gaggttctgc tgcagcctga cttcaatgct gaaaagtctc caggcctctg gtacgtggtc      120
103 tccatggcat ctgactgcag ggtcttcctg ggcaagaagg accacctgtc catgtccacc      180
104 agggccatca ggcccacaga ggagggcggc ctccacgtcc acatggagtt cccggggcgg      240
105 gacggctgta accaggtgga tgccgagtac ctggagtctc tccatcctcc acccccgcgc      300
106 tgtgggatgc cttgtgggac gtctctttct attcaataa      339
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 112
110 <212> TYPE: PRT
111 <213> ORGANISM: homo sapiens
113 <400> SEQUENCE: 6
114 Met Met Ser Phe Leu Leu Gly Ala Ile Leu Thr Leu Leu Trp Ala Pro
115 1      5      10      15

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116 Thr Ala Gln Ala Glu Val Leu Leu Gln Pro Asp Phe Asn Ala Glu Lys
117          20          25          30
118 Phe Ser Gly Leu Trp Tyr Val Val Ser Met Ala Ser Asp Cys Arg Val
119          35          40          45
120 Phe Leu Gly Lys Lys Asp His Leu Ser Met Ser Thr Arg Ala Ile Arg
121          50          55          60
122 Pro Thr Glu Glu Gly Gly Leu His Val His Met Glu Phe Pro Gly Ala
123 65          70          75          80
124 Asp Gly Cys Asn Gln Val Asp Ala Glu Tyr Leu Glu Ser Leu His Pro
125          85          90          95
126 Pro Pro Pro Ala Cys Gly Met Pro Cys Gly Thr Ser Leu Ser Ile Gln
127          100          105          110
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 159
131 <212> TYPE: DNA
132 <213> ORGANISM: homo sapiens
134 <400> SEQUENCE: 7
135 atgatgtcat tcctgctcgg cgcaatcctg accctgctct gggcgccac ggctcaggct      60
136 gaggttctgc tgcagcctga cttcaatgct gaaaaggtag caggggcctc tgctgtcctg      120
137 tgggtgggtgg gagctgggcc cctgccagag acaacgtga                                159
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 52
141 <212> TYPE: PRT
142 <213> ORGANISM: homo sapiens
144 <400> SEQUENCE: 8
145 Met Met Ser Phe Leu Leu Gly Ala Ile Leu Thr Leu Leu Trp Ala Pro
146 1          5          10          15
147 Thr Ala Gln Ala Glu Val Leu Leu Gln Pro Asp Phe Asn Ala Glu Lys
148          20          25          30
149 Val Pro Gly Ala Ser Ala Val Leu Trp Trp Val Gly Ala Gly Pro Leu
150          35          40          45
151 Pro Glu Thr Thr
152          50
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 579
156 <212> TYPE: DNA
157 <213> ORGANISM: homo sapiens
159 <400> SEQUENCE: 9
160 atgggctgga gggcagggga ggggatgatg tcattcctgc tcggcgcaat cctgaccctg      60
161 ctctgggcgc ccacggctca ggctgaggtt ctgctgcagc ctgacttcaa tgctgaaaag      120
162 ttctcaggcc tctggtacgt ggtctccatg gcatctgact gcagggtcct cctgggcaag      180
163 aaggaccacc tgtccatgtc caccagggcc atcaggccca cagaggaggg cggcctccac      240
164 gtccacatgg agttcccggg ggcggacggc tgtaaccagg tggatgccga gtacctgaag      300
165 gtgggtccg agggacactt cagagtcccg gccttgggct acctggacgt gcgcatcgtg      360
166 gacacagact acagctcctt cgccgtcctt tacatctaca aggagctgga gggggcgctc      420
167 agcaccatgg tgcagctcta cagccggacc caggatgtga gtccccaggc tctgaaggcc      480
168 ttccaggact tctacccgac cctggggctc cccgaggaca tgatggtcat gctgccccag      540
169 tcagatgcat gcaaccctga gagcaaggag gcgcctga                                579
171 <210> SEQ ID NO: 10

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172 <211> LENGTH: 192

173 <212> TYPE: PRT

174 <213> ORGANISM: homo sapiens

176 <400> SEQUENCE: 10

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177 Met Gly Trp Arg Ala Gly Glu Gly Met Met Ser Phe Leu Leu Gly Ala
178 1 5 10 15
179 Ile Leu Thr Leu Leu Trp Ala Pro Thr Ala Gln Ala Glu Val Leu Leu
180 20 25 30
181 Gln Pro Asp Phe Asn Ala Glu Lys Phe Ser Gly Leu Trp Tyr Val Val
182 35 40 45
183 Ser Met Ala Ser Asp Cys Arg Val Phe Leu Gly Lys Lys Asp His Leu
184 50 55 60
185 Ser Met Ser Thr Arg Ala Ile Arg Pro Thr Glu Glu Gly Gly Leu His
186 65 70 75 80
187 Val His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala
188 85 90 95
189 Glu Tyr Leu Lys Val Gly Ser Glu Gly His Phe Arg Val Pro Ala Leu
190 100 105 110
191 Gly Tyr Leu Asp Val Arg Ile Val Asp Thr Asp Tyr Ser Ser Phe Ala
192 115 120 125
193 Val Leu Tyr Ile Tyr Lys Glu Leu Glu Gly Ala Leu Ser Thr Met Val
194 130 135 140
195 Gln Leu Tyr Ser Arg Thr Gln Asp Val Ser Pro Gln Ala Leu Lys Ala
196 145 150 155 160
197 Phe Gln Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val
198 165 170 175
199 Met Leu Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro
200 180 185 190

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202 <210> SEQ ID NO: 11

203 <211> LENGTH: 231

204 <212> TYPE: DNA

205 <213> ORGANISM: homo sapiens

207 <400> SEQUENCE: 11

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208 atgggctgga gggcagggga ggggatgatg tcattcctgc tcggcgcaat cctgaccctg 60
209 ctctgggcgc ccacggctca ggctgaggtt ctgctgcagc ctgacttcaa tgctgaaaag 120
210 ggtcttcttg ggcaagaagg accacctgtc catgtccacc agggccatca ggcccacaga 180
211 ggagggcggc ctccacgtcc acatggagtt cccgggggcg gacggctgta a 231

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213 <210> SEQ ID NO: 12

214 <211> LENGTH: 76

215 <212> TYPE: PRT

216 <213> ORGANISM: homo sapiens

218 <400> SEQUENCE: 12

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219 Met Gly Trp Arg Ala Gly Glu Gly Met Met Ser Phe Leu Leu Gly Ala
220 1 5 10 15
221 Ile Leu Thr Leu Leu Trp Ala Pro Thr Ala Gln Ala Glu Val Leu Leu
222 20 25 30
223 Gln Pro Asp Phe Asn Ala Glu Lys Gly Leu Pro Gly Gln Glu Gly Pro
224 35 40 45
225 Pro Val His Val His Gln Gly His Gln Ala His Arg Gly Gly Arg Pro

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226      50      55      60
227 Pro Arg Pro His Gly Val Pro Gly Gly Gly Arg Leu
228 65      70      75
230 <210> SEQ ID NO: 13
231 <211> LENGTH: 363
232 <212> TYPE: DNA
233 <213> ORGANISM: homo sapiens
235 <400> SEQUENCE: 13
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237 ctctgggcgc ccacggctca ggctgaggtt ctgctgcagc ctgacttcaa tgctgaaaag      120
238 ttctcaggcc tctgtacgt ggtctccatg gcatctgact gcagggtctt cctgggcaag      180
239 aaggaccacc tgtccatgtc caccagggcc atcaggccca cagaggaggc cggcctccac      240
240 gtccacatgg agttcccggg ggcggacggc tgtaaccagg tggatgccga gtacctggag      300
241 tctctccatc ctccaccccc cgctgtggg atgccttgtg ggacgtctct ttctattcaa      360
242 taa      363
244 <210> SEQ ID NO: 14
245 <211> LENGTH: 120
246 <212> TYPE: PRT
247 <213> ORGANISM: homo sapiens
249 <400> SEQUENCE: 14
250 Met Gly Trp Arg Ala Gly Glu Gly Met Met Ser Phe Leu Leu Gly Ala
251 1      5      10      15
252 Ile Leu Thr Leu Leu Trp Ala Pro Thr Ala Gln Ala Glu Val Leu Leu
253      20      25      30
254 Gln Pro Asp Phe Asn Ala Glu Lys Phe Ser Gly Leu Trp Tyr Val Val
255      35      40      45
256 Ser Met Ala Ser Asp Cys Arg Val Phe Leu Gly Lys Lys Asp His Leu
257      50      55      60
258 Ser Met Ser Thr Arg Ala Ile Arg Pro Thr Glu Gly Gly Leu His
259 65      70      75      80
260 Val His Met Glu Phe Pro Gly Ala Asp Gly Cys Asn Gln Val Asp Ala
261      85      90      95
262 Glu Tyr Leu Glu Ser Leu His Pro Pro Pro Pro Ala Cys Gly Met Pro
263      100      105      110
264 Cys Gly Thr Ser Leu Ser Ile Gln
265      115      120
267 <210> SEQ ID NO: 15
268 <211> LENGTH: 183
269 <212> TYPE: DNA
270 <213> ORGANISM: homo sapiens
272 <400> SEQUENCE: 15
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274 ctctgggcgc ccacggctca ggctgaggtt ctgctgcagc ctgacttcaa tgctgaaaag      120
275 gtaccagggg cctctgctgt cctgtggtgg gtgggagctg ggcccctgcc agagacaacg      180
276 tga      183
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 60
280 <212> TYPE: PRT
281 <213> ORGANISM: homo sapiens

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VERIFICATION SUMMARY

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Input Set : A:\LEX-0173-USA SEQLIST.txt

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date